

### Abstract Of the Disclosure

[0035] A moldable pellet used for making high impact, non-abrasive recyclable structural composites consisting of a thermoplastic polymer or polymers, with or without fillers and additives, and a synthetic cellulosic fiber in yarn or tow form such as Rayon or Lyocell. The concentration of cellulose fiber within the pellet may vary from approximately 2-80 percent by weight or higher. This moldable pellet is suitable for molding in current molding applications such as, but not limited to, injection molding, extrusion compression molding, and compression molding.